		Exploring the Ex	treme
	200	06 21st Century Ma	
		Standards and Ob	
West Virginia 21st C			
Grade 1			
Activity/Lesson	State	Standards	
			select appropriate units and tools to measure
			and compare two objects or events
			according to one or more of the following
			attributes: length, height, weight,
			temperature, volume. justify selection of
Finding the Center of		MA.1.M.O.1.4.	units and tools used to measure the
Gravity Using Rulers	WV	2	attributes and present results.
			estimate, measure, compare and order using
Finding the Center of		MA.1.M.O.1.4.	customary, metric, and nonstandard units to
Gravity Using Rulers		1	determine length to nearer whole unit.
Cravity Coming Training			dotorrime longer to rear or where drift.
	Į.	Exploring the Ex	
		06 21st Century Ma	
Mast Vinninia 04 at 0		Standards and Ob	jectives
West Virginia 21st C Grade 2	entury Matnema	atics	
Activity/Lesson	State	Standards	
Activity/Lesson	State	Staridards	
Finding the Center of		MA.2.M.O.2.2.	explain how one variable produces a change
Gravity Using Rulers		2	in another variable
		Exploring the Ex	
		06 21st Century Ma	
Most Virginia 24st C		Standards and Ob	jectives
West Virginia 21st C Grade 3	entury watnema	atics	
Activity/Lesson	State	Standards	
			estimate and find the perimeter and area of
Finding the Center of			familiar geometric shapes, using
Gravity Using Plumb		MA.3.M.O.3.4.	manipulatives, grids, or appropriate
Lines	WV	2	measuring tools.
			estimate and find the perimeter and area of
Changing the Center			familiar geometric shapes, using
of Gravity Using		MA.3.M.O.3.4.	manipulatives, grids, or appropriate
Moment Arms	WV	2	measuring tools.
		Exploring the Ex	tromo
	200	D6 21st Century Ma	
		Standards and Ob	
West Virginia 21st C			
Grade 4			
Activity/Lesson	State	Standards	

Finding the Center of Gravity Using Rulers Finding the Center of Gravity Using Rulers	WV	MA.4.M.O.4.4. 1 MA.4.M.O.4.5. 2	select appropriate measuring tools, apply and convert standard units within a system to estimate, measure, compare and order real-world measurements including: lengths using customary (to the nearest one-fourth inch) and metric units, weight, capacity, temperature, and justify and present results. pose a grade-appropriate question that can be addressed with data, collect, organize, display, and analyze data in order to answer the question.		
Finding the Center of Gravity Using Plumb Lines	WV	MA.4.M.O.4.4. 1	select appropriate measuring tools, apply and convert standard units within a system to estimate, measure, compare and order realworld measurements including: lengths using customary (to the nearest one-fourth inch) and metric units, weight, capacity, temperature, and justify and present results.		
Changing the Center of Gravity Using Moment Arms	WV	MA.4.M.O.4.4. 1	select appropriate measuring tools, apply and convert standard units within a system to estimate, measure, compare and order realworld measurements including: lengths using customary (to the nearest one-fourth inch) and metric units, weight, capacity, temperature, and justify and present results. pose a grade-appropriate question that can		
Changing the Center of Gravity Using Moment Arms	wv	MA.4.M.O.4.5.	be addressed with data, collect, organize, display, and analyze data in order to answer the question.		
		xploring the Ex			
		21st Century Ma			
		ndards and Ob	jectives		
West Virginia 21st C	entury Mathematic	S			
Grade 5					
Activity/Lesson	State	Standards			
			estimate solutions to problems involving whole numbers, decimals, fractions, and		
Center of Gravity,		MA.5.M.O.5.1.	percents to determine reasonableness using		
Pitch, Yaw	wv	3	benchmarks.		
Center of Gravity,	V V	MA.5.M.O.5.1.	model and write equivalencies of fractions,		
Pitch, Yaw	WV	6	decimals, percents, and ratios.		
. non, rav	- · ·		estimate and/or measure the weight/mass of		
Center of Gravity,		MA.5.M.O.5.4.	real objects in ounces, pounds, grams, and		
Pitch, Yaw	wv	6	kilograms.		
Exploring the Extreme					
2006 21st Century Mathematics					
Standards and Objectives					
•					

West Virginia 21st	Century Math	ematics	
Grade 6			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	WV	MA.6.M.O.6.1.	compute the percent of a number to solve application problems and justify the reasonableness by estimation.
Center of Gravity, Pitch, Yaw	WV	MA.6.M.O.6.2.	write and solve one-step equations using number sense, properties of operations and the idea of maintaining equality to represent and solve real-world problems.
i itori, raw	VVV	0	and solve real-world problems.
		Exploring the Ex	l treme
		2006 21st Century Ma	
		Standards and Ob	
West Virginia 21st	Century Math		
Grade 7	, ,,,,,,,		
Activity/Lesson	State	Standards	
			analyze and solve grade-appropriate real- world problems with whole numbers, integers, decimals, fractions and percents including problems involving discounts,
Center of Gravity, Pitch, Yaw	WV	MA.7.M.O.7.1. 5	interest, taxes, tips, percent increase or decrease, and justify solutions including using estimation and reasonableness.
		Frankania a 4h a Fr	4
		Exploring the Ex	
		2006 21st Century Ma	
M()/''-'- 04-(O (Standards and Ob	Jectives
West Virginia 21st	Century Math	ematics	
Grade 8	Ctoto	Cton doudo	
Activity/Lesson	State	Standards	analyze and solve grade-appropriate real- world problems with whole numbers, decimals, fractions, percents, percent increase and decrease, integers, and including, but not limited to, rates, tips,
Center of Gravity, Pitch, Yaw	WV	MA.8.M.O.8.1. 3	discounts, sales tax and interest and verify solutions using estimation techniques.
Fuel Efficiency	wv	MA.8.M.O.8.4. 2	solve problems involving missing measurements in plane and solid geometric figures using formulas and drawings including irregular figures, models or definitions.